US-PAT-NO: 5134723

DOCUMENT-IDENTIFIER: US 5134723 A

TITLE: Radio Sensitivity enhancer

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Detailed Description Text - DETX (8):
  In the first receiver string 40, the mixer 52 adds the frequency of the
desired signal from the antenna 44 with the frequency of the signal from the
local **oscillator** 62. The local **oscillator** 62 is **tuned** so the sum of the
frequency of the desired radio frequency signal from the antenna 44 and the
frequency from the local **oscillator** 62 will be passed within the bandwidth
selected by the **intermediate frequency filter** 54. The bandwidth of signals
passed by the **intermediate frequency filter** 54, including the desired signal,
are amplified by the intermediate frequency amplifier 56 and input to the
product detector 58. The product detector 58 outputs a product or difference

frequency of the intermediate frequency signal from the intermediate frequency
amplifier 56 and the frequency signal of the beat frequency oscillator 64. By
doing so, the product detector 58 converts the intermediate frequency signal
from the intermediate frequency amplifier 56 into an audio signal which the
product detector 58 outputs to the audio frequency amplifier 60.

Other Reference Publication - OREF (8):
  Brochure-"Performance-Direct Digital Synthesis", 1989, Yaesu, USA ICOM
IC-781 160- to 10-Meter Transceiver, Product Review, Jan. 1990, pp. 39-43 and
p. 73.